



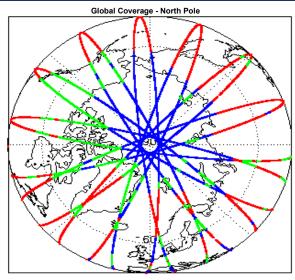
1. Overview

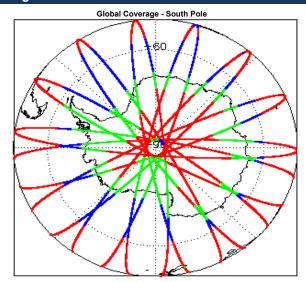
Report Production Date:	17-Dec-2018
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

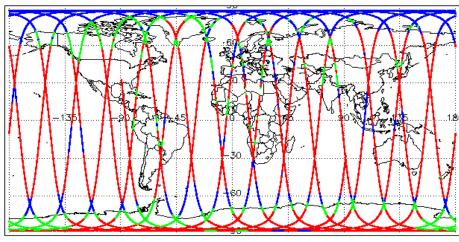
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

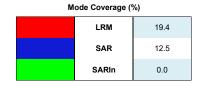
Mission / Instrument News		
15-N	lov-2018	SIRAL unavailability on 15-Nov-2018 from 08:33:44 to 10:19:43 due to a planned orbit manoeuvre.
16-N	lov-2018	None
17-N	lov-2018	Nothing planned

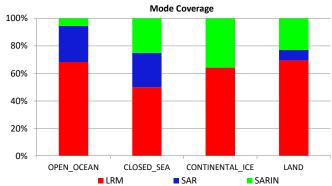
2. Global Coverage

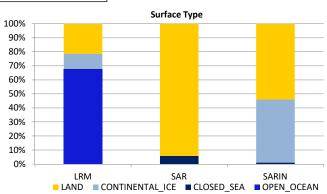












3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A
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4. Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL)

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

Number of products with errors: 0

4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

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4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20181116T043331_20181116T043706_C001	IECHO error IRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL)

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors: 108

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220181115T235147_20181116T000802_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

COLORS, BRURN 2, 201811107002202, 20181107003145 CDD Sample Time (Bassacher 3), Becomed to the same a family and independent on an one recommendation of the control of th	CS_OFFL_SIR_LRM_2201811116T002330_201811116T004818_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
COUNT, BRILLIAND, 201911101012000, 20191101012000, 20191 COUNT, BRILLIAND, 20191110102000, 20191			
Any STATE AND A STATE OF THE ST		, ,	
South Conference of the control of t	CS_OFFL_SIR_LRM_2 _201811161015540_201811161015905_C001		·
Co., OFF., SRL, LINE 2_20111101000000_201110110000000_201110110000000_2011101100000000	CS_OFFL_SIR_LRM_220181116T020307_20181116T021334_C001	Error (Retracker 2)	records
projection 19 per la field part declaration from the site for grant controller and site for each of the controller and site for the site of the site o	CS_OFFL_SIR_LRM_220181116T021910_20181116T023429_C001	Error (Retracker 2)	
Appliture (Parcelorer 2) included and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of Patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the patterland 2 and a height and the control of the second and the second and the control of the second and the contro	CS_OFFL_SIR_LRM_220181116T025953_20181116T032131_C001	(Retracker 3), Backscatter Error	
CB_CPFL_SRI_EMD20081107T05401_20181107T05401_00091 CB_CPFL_SRI_EMD_20081107T05401_20181107T05401_00091 CB_CPFL_SRI_EMD_20081107T05401_20181107T05400_00091 CB_CPFL_SRI_EMD_20081107T05401_20181107T05400_00091 CB_CPFL_SRI_EMD_20081107T05401_20181107T05400_00091 CB_CPFL_SRI_EMD_20081107T05401_20181107T05400_00091 CB_CPFL_SRI_EMD_20081107T05400_20181107T05400_00091 CB_CPFL_SRI_EMD_200811107T05400_20181107T05400_00091 CB_CPFL_SRI_EMD_200811107T05400_00091 CB_CPFL_SRI_EMD_200911107T05400_00091 CB_CPFL_SRI_EMD_200911107T05400_00091 CB_CPFL_SRI_EMD_200911107T05400_00091 CB_CPFL_SRI_EMD_200911107T05400_00091 CB_CPFL_SRI_EMD_200911107T154000_00091 CB_CPFL_SRI_EMD_200911107T154000_00091 CB_CPFL_SRI_EMD_200911107T154000_00091 C	CS_OFFL_SIR_LRM_220181116T033003_20181116T033812_C001		No DEM or Slope Model was used for the location of one or more records
CS. OFFL, SRL LENU 2. 2018111817003502 2018111817004502 2018118171004502 201811817004502 201811817004502 201811817004502 20181	CS_OFFL_SIR_LRM_220181116T034337_201811116T041539_C001	(Retracker 3), Backscatter Error	
Segn Film (Nameser 2), Regulation from Control (Received 2) (Received	CS_OFFL_SIR_LRM_2_20181116T045419_201811116T045821_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_2018116T006312_2018116T006312_C001 Fileptit Envi (Petraduce 2) Fileptit Envi (Petra	CS_OFFL_SIR_LRM_220181116T050941_20181116T051500_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Enry (Petrander 2) So. OFFL, SRL LRM, 2, 20181197060255, 2018119708202, C001 Seglis Enry (Retrander 2), Backcoatter Enry (Re	CS_OFFL_SIR_LRM_2201811116T052152_201811116T054310_C001	(Retracker 3), Backscatter Error	
Envi (Retacker 2) Backscaller Envi (CS_OFFL_SIR_LRM_2201811116T054555_201811116T055612_C001		
Envi (Retracker 2) Surface Model Unavailable So (PFL_SIR_LRM 2_20181116T09509_20181116T09590_C001 Exp (Retracker 2) Surface Model Unavailable So (PFL_SIR_LRM 2_20181116T09000_20181116T09590_C001 Exp (Retracker 2) Height Envi	CS_OFFL_SIR_LRM_2_201811116T060655_201811116T061128_C001		
For (Refracker 2) process CS_OFFL_SIR_LRM_2_20181116T09504_20181116T09540_C001 Surface Model Unavailable No DEM or Skepe Model was used for the location of one or more records No DEM or Skepe Model was used for the location of one or more records Sorting Refracker 2, Beackcatter Form (Refracker 2), Beackcatter F	CS_OFFL_SIR_LRM_220181116T062718_201811116T063202_C001		
Height Error (Refracker 2), Backscatter Error (Refracker 2), Backs	CS_OFFL_SIR_LRM_220181116T063350_20181116T064402_C001		
S_OFFL_SIR_LRM_2_2018111610107010_20181161010353_U01 S_OFFL_SIR_LRM_2_201811161076000_201811161082137_C001 S_OFFL_SIR_LRM_2_201811161064033_20181116108729_C001 S_OFFL_SIR_LRM_2_201811161064033_201811161068729_C001 S_OFFL_SIR_LRM_2_201811161064032_201811161068729_C001 S_OFFL_SIR_LRM_2_201811161065927_201811161068729_C001 S_OFFL_SIR_LRM_2_201811161065927_201811161068729_C001 S_OFFL_SIR_LRM_2_201811161069229_201811161064032_C001 S_OFFL_SIR_LRM_2_201811161069229_201811161004600_C001 S_OFFL_SIR_LRM_2_201811161069229_201811161004600_C001 S_OFFL_SIR_LRM_2_201811161069229_201811161004600_C001 S_OFFL_SIR_LRM_2_201811161069229_20181116100357_C001 S_OFFL_SIR_LRM_2_201811161069229_20181116100357_C001 S_OFFL_SIR_LRM_2_201811161069229_20181116100357_C001 S_OFFL_SIR_LRM_2_20181116100352_20181116100357_C001 S_OFFL_SIR_LRM_2_201811161100352_20181116100357_C001 S_OFFL_SIR_LRM_2_201811161100352_20181116100357_C001 S_OFFL_SIR_LRM_2_201811161100352_20181116100357_C001 S_OFFL_SIR_LRM_2_201811161100352_201811161103357_C001 S_OFFL_SIR_LRM_2_201811161100352_201811161105020_C001 S_OFFL_SIR_LRM_2_20181116110052_201811161100352_C001 S_OFFL_SIR_LRM_2_201811161100552_201811161105020_C001 S_OFFL_SIR_LRM_2_201811161100552_201811161105020_C001 S_OFFL_SIR_LRM_2_201811161100552_201811161105020_C001 S_OFFL_SIR_LRM_2_201811161100552_201811161105020_C001 S_OFFL_SIR_LRM_2_201811161100552_2018111611105020_C001 S_OFFL_SIR_LRM_2_201811161100552_2018111611105020_C001 S_OFFL_SIR_LRM_2_201811161110552_2018111611105020_C001 S_OFFL_SIR_LRM_2_201811161110552_2018111611105020_C001 S_OFFL_SIR_LRM_2_2018111611105052_2018111611105020_C001 S_OFFL_SIR_LRM_2_2018111611105052_201811161100001 S_OFFL_SIR_LRM_2_2018111611100052_201811161100001 S_OFFL_SIR_LRM_2_201811161100052_201811161100001 S_OFFL_SIR_LRM_2_201811161100052_201811161100001 S_OFFL_SIR_LRM_2_201811161100052_201811161100001 S_OFFL_SIR_LRM_2_201811161100052_201811161100001 S_OFFL_SIR_LRM_2_201811161100052_201811161100001 S_OFFL_SIR_LRM_2_201811161100001 S_OFFL_SIR_LRM_	CS_OFFL_SIR_LRM_220181116T065049_201811116T065400_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
GS_OFFL_SIR_LRM_2_20181116T070600_20181116T073510_C001 (Retracker 2) Asaksanter Error (Retracker 2) Height Error (Retracker 2) Asaksanter Error (Retracker 3) Asaksanter Error (Retracker	CS_OFFL_SIR_LRM_220181116T070110_20181116T070553_C001		
CS_OFFL_SIR_LRM_2_20181116T08032_20181116T0809857_C001 CS_OFFL_SIR_LRM_2_20181116T08032_20181116T089857_C001 CS_OFFL_SIR_LRM_2_20181116T08032_20181116T098057_C001 CS_OFFL_SIR_LRM_2_20181116T08032_20181116T098057_C001 CS_OFFL_SIR_LRM_2_20181116T08032_20181116T09409_C001 CS_OFFL_SIR_LRM_2_20181116T09522_20181116T1009409_C001 CS_OFFL_SIR_LRM_2_20181116T09522_20181116T1009409_C001 CS_OFFL_SIR_LRM_2_20181116T09522_20181116T1009409_C001 CS_OFFL_SIR_LRM_2_20181116T109522_20181116T1009409_C001 CS_OFFL_SIR_LRM_2_20181116T109522_20181116T1009408_C001 CS_OFFL_SIR_LRM_2_20181116T10955_20181116T101022_C001 CS_OFFL_SIR_LRM_2_20181116T10936_20181116T10032_C001 CS_OFFL_SIR_LRM_2_20181116T10936_20181116T10032_C001 CS_OFFL_SIR_LRM_2_20181116T10936_20181116T10030_C001 CS_OFFL_SIR_LRM_2_20181116T10936_20181116T10030_C001 CS_OFFL_SIR_LRM_2_20181116T110932_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T110932_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T1110932_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T111095_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T111095_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T111095_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T11125_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T11125_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T11125_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T11125_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T11125_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T11252_20181116T111200_C001 CS_OFFL_SIR_LRM_2_20181116T11200_C001 CS_OFFL_SIR_LRM_2_20181116T112344_C001 CS_OFFL_SIR_LRM_2_20181116T112344_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T112344_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T112344_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T112344_C001 CS_OFFL_SIR_LRM_2_20181116T1133347_20181116T132344_C001 CS_OFFL_SIR_LRM_2_20181116T113344_C001 CS_OFFL_SIR_LRM_2_20181116T113344_C001 CS_OFFL_SIR_LRM_2_20181116T113344_C001 CS_OFFL_SIR_LRM_2_20181116T113344_C001 CS_OFFL_SIR_LRM_2_20181116T113344_C001 CS_OFFL_SIR_LRM	CS_OFFL_SIR_LRM_220181116T070600_20181116T073510_C001	(Retracker 3), Backscatter Error	
(Retracker 3), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181116T089032_20181116T094609_C001 CS_OFFL_SIR_LRM_2_20181116T093028_20181116T094609_C001 CS_OFFL_SIR_LRM_2_20181116T093028_20181116T094609_C001 CS_OFFL_SIR_LRM_2_20181116T093028_20181116T00408_C001 CS_OFFL_SIR_LRM_2_20181116T093052_20181116T10408_C001 CS_OFFL_SIR_LRM_2_20181116T1093052_20181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T109305_20181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T109305_20181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T101305_200181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T101305_20181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T10305_20181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T10305_20181116T101222_C001 CS_OFFL_SIR_LRM_2_20181116T10305_20181116T101305_C001 CS_OFFL_SIR_LRM_2_20181116T10305_20181116T101305_C001 CS_OFFL_SIR_LRM_2_20181116T110302_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T1110302_20181116T11103_C001 CS_OFFL_SIR_LRM_2_20181116T111225_20181116T11133_C001 CS_OFFL_SIR_LRM_2_20181116T111225_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T111305_C001 CS_OFFL_SIR_LRM_2_20181116T111250_20181116T112500_C001 CS_OFFL_SIR_LRM_2_20181116T112505_20181116T112500_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T112504_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123344_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123286_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123286_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123286_C001 CS_OFFL_SIR_LRM_2_20181116T1133347_20181116T1323446_C001 CS_OFFL_SIR_LRM_2_20181116T1133347_20181116T1323446_C001 CS_OFFL_SIR_LRM_2_20181116T133347_20181116T1323446_C001 CS_OFFL_SIR_LRM_2_20181116T133347_20181116T1323446_C001 CS_OFFL_SIR_LRM_2_20181116T133347	CS_OFFL_SIR_LRM_220181116T075734_20181116T082137_C001	(Retracker 3), Backscatter Error	
(Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 3) and and an	CS_OFFL_SIR_LRM_220181116T084033_20181116T085729_C001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20181116T109552_9_20181116T101222_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181116T101936_20181116T103357_C001 Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracke	CS_OFFL_SIR_LRM_220181116T085927_201811116T090857_C001	(Retracker 3), Backscatter Error	
(Retracker 3), Backscatter Error (Retracker 2) and backscatter error for Retracker 2 and a height error (Retracker 3). Backscatter Error (Retracker 3) for one or more records CS_OFFL_SIR_LRM_2_20181116T101936_20181116T103357_C001 Elight Error (Retracker 2), Backscatter Error (Retracker 2). Backscatter Error (Retracker 3). Back	CS_OFFL_SIR_LRM_220181116T093028_20181116T094609_C001		· ·
CS_OFFL_SIR_LRM_2_20181116T10936_20181116T103357_C001 Height Error (Retracker 2), Backscatter Erro	CS_OFFL_SIR_LRM_220181116T095229_20181116T100408_C001	(Retracker 3), Backscatter Error	
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181116T103536_20181116T10502_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 4), Height Error (Retracker 4), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (R	CS_OFFL_SIR_LRM_220181116T100955_20181116T101222_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181116T110902_20181116T111103_C001 CS_OFFL_SIR_LRM_2_20181116T111225_20181116T111103_C001 CS_OFFL_SIR_LRM_2_20181116T111225_20181116T111935_C001 CS_OFFL_SIR_LRM_2_20181116T111225_20181116T111935_C001 CS_OFFL_SIR_LRM_2_20181116T111225_20181116T1112001_C001 CS_OFFL_SIR_LRM_2_20181116T112058_20181116T112001_C001 CS_OFFL_SIR_LRM_2_20181116T112058_20181116T11400_C001 CS_OFFL_SIR_LRM_2_20181116T112058_20181116T11400_C001 CS_OFFL_SIR_LRM_2_20181116T114740_20181116T115626_C001 CS_OFFL_SIR_LRM_2_20181116T114740_20181116T11203_C001 CS_OFFL_SIR_LRM_2_20181116T114740_20181116T112203_C001 CS_OFFL_SIR_LRM_2_20181116T115925_20181116T122103_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T112300_20181116T123258_C001 CS_OFFL_SIR_LRM_2_20181116T1125820_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T125820_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T125820_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T13200C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T133904_20181116T13000C001	CS_OFFL_SIR_LRM_220181116T101936_20181116T103357_C001		
CS_OFFL_SIR_LRM_2_20181116T111902_20181116T111103_C001 (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height e	CS_OFFL_SIR_LRM_220181116T103536_20181116T105020_C001		
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) and a height error for Retracker 2 and a height error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20181116T112058_20181116T112601_C001 CS_OFFL_SIR_LRM_2_20181116T112806_20181116T114409_C001 CS_OFFL_SIR_LRM_2_20181116T114740_20181116T114409_C001 CS_OFFL_SIR_LRM_2_20181116T114740_20181116T115626_C001 CS_OFFL_SIR_LRM_2_20181116T115925_20181116T1122103_C001 CS_OFFL_SIR_LRM_2_20181116T1123347_20181116T122103_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T133258_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 2 and a height error for Ret	CS_OFFL_SIR_LRM_220181116T110902_20181116T111103_C001	(Retracker 3), Backscatter Error	
Height Error (Retracker 2), Height Error (Retracker 2) and a height error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20181116T112806_20181116T114409_C001 CS_OFFL_SIR_LRM_2_20181116T114740_20181116T115626_C001 CS_OFFL_SIR_LRM_2_20181116T115925_20181116T122103_C001 CS_OFFL_SIR_LRM_2_20181116T115925_20181116T122103_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 CS_OFFL_SIR_LRM_2_20181116T123347_20181116T132258_C001 CS_OFFL_SIR_LRM_2_20181116T132347_20181116T132258_C001 Height Error (Retracker 2), Height Error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_2_20181116T111225_20181116T111935_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	
Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Er	CS_OFFL_SIR_LRM_2_20181116T112058_20181116T112601_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20181116T115925_20181116T122103_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retrac	CS_OFFL_SIR_LRM_2_20181116T112806_20181116T114409_C001	Height Error (Retracker 2), Backscatter	
CS_OFFL_SIR_LRM_2_20181116T115925_20181116T122103_C001 (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backs	CS_OFFL_SIR_LRM_2_20181116T114740_201811116T115626_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_2_20181116T115925_201811116T122103_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20181116T132258_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records CS_OFFL_SIR_LRM_2_20181116T133904_20181116T140302_C001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Ba	CS_OFFL_SIR_LRM_2_20181116T123347_20181116T123444_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20181116T133904_20181116T140302_C001 (Retracker 3), Backscatter Error for Retracker 2 and a neight error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220181116T125820_20181116T132258_C001	Height Error (Retracker 2), Backscatter	
(retracker z)	CS_OFFL_SIR_LRM_220181116T133904_20181116T140302_C001		

CS_OFFL_SIR_LRM_220181116T143138_20181116T144604_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T151819_20181116T153727_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T153753_20181116T154213_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T160723_20181116T164101_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20181116T170435_20181116T171205_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T172300_20181116T172347_C001	Height Error (Retracker 3),	#N/A
CS_OFFL_SIR_LRM_220181116T174608_20181116T175612_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20181116T175858_20181116T182017_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T183747_20181116T184733_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T184921_20181116T185638_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T185722_20181116T190154_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T192346_20181116T195911_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T200730_20181116T201009_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220181116T201812_20181116T203041_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T203050_20181116T204822_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T210542_20181116T210841_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T210931_20181116T212130_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T212334_20181116T213846_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T215523_20181116T220548_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T221207_20181116T222815_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181116T230332_20181116T231717_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181116T233259_20181117T000629_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_SIN_2_20181116T000915_20181116T001202_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T001620_20181116T001626_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T001826_20181116T002131_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T014856_20181116T015011_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T015534_20181116T015540_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T015906_20181116T020024_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T024910_20181116T025008_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T032839_20181116T033003_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T033812_20181116T033925_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T050816_20181116T050941_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T051501_20181116T051807_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T060630_20181116T060653_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T064759_20181116T065048_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220181116T065400_20181116T065736_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T082838_20181116T083112_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T083306_20181116T083544_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T083748_20181116T083931_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T092343_20181116T092503_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T092914_20181116T093028_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T100411_20181116T100955_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T101222_20181116T101249_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T101714_20181116T101853_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T105814_20181116T105906_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T110314_20181116T110524_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T114601_20181116T114740_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T115626_20181116T115836_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T124227_20181116T124713_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T132536_20181116T132702_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T132847_20181116T132949_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T133418_20181116T133640_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T150511_20181116T150905_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T151456_20181116T151621_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T155540_20181116T155604_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T155608_20181116T155634_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T164458_20181116T164811_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T165327_20181116T165436_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T182232_20181116T182649_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T183227_20181116T183351_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T191157_20181116T191602_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T200020_20181116T200148_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T201009_20181116T201155_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T204822_20181116T204942_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T205404_20181116T205457_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T213925_20181116T214107_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T214639_20181116T214646_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T214809_20181116T215030_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181116T223159_20181116T223411_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181116T231819_20181116T232022_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220181116T232553_20181116T232600_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181116T232708_20181116T233140_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	170	170	170	0	0
SIR_LRM_2	167	167	167	0	0
SIR_LRMI2_	167	167	167	0	0
SIR_SAR_1B	112	112	112	0	0
SIR_SAR_2	112	112	112	0	0
SIR_SARI2_	112	112	112	0	0
SIR_SIN_1B	112	112	112	0	0
SIR_SIN_2	112	112	112	0	0
SIR_SINI2	112	112	112	0	0
SIR GDR 2	15	15	15	0	0

6.1	QCC	Errors
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Number of products with QCC errors:

0

6.2 QCC Warnings

Number of QCC reports with warnings

0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

203